

CLAIMS

What is claimed as being new and desired to be protected by LETTERS PATENT of the United States is as follows:

1. A window-mounted air conditioner installation system for securing an air conditioner in a window opening while allowing a user to open and close the window in a safe and convenient manner comprising, in combination:

a window assembly including a vertically reciprocable rectangular window with a peripheral support with a planar lower face and vertical side faces, the window assembly also including a lower horizontal sash and vertical side supports for slidably receiving the vertical side faces of the window, the lower horizontal sash and vertical side supports defining a window opening of a fixed width;

a window mounted air conditioner positionable in the window opening with a lower surface positionable upon the sash with a base plate in between and with an exposed planar upper horizontal surface, the air conditioner having side plates laterally adjustable to allow a user to seal off the those portions of the window opening laterally spaced from the air conditioner;

a support bar assembly including a first bar having a length greater than 50 percent, and less than 100 percent, of the width of the window opening and having a vertical outdoor face and a parallel indoor face and having a horizontal planar upper face

and a parallel lower face, the first bar being hollow with a large rectangular configuration, the first bar having a free end and a central end, the support bar assembly also having a second bar having a length greater than 50 percent, and less than 100 percent, of the width of the window opening and having a vertical outdoor face and a parallel indoor face and having a horizontal planar upper face and a parallel lower face, the first bar being hollow with a small rectangular configuration, the second bar having a free end and a central end, the central end of the second bar being slidably received within the central end of the first bar to allow a user to vary the length of the bar assembly, the bars being fabricated of an essentially rigid material;

end stoppers having rectilinear portions received within the free ends of the first bar and second bar respectively, each stopper having an enlarged portion formed integrally with its associated rectilinear portion and positionable against the side faces of the window support, the end stoppers being fabricated of an elastomeric material;

a locking assembly secured to the outdoor face of the first bar adjacent to the central end, the locking assembly including a vertically disposed pivot pin fixedly spaced from the first bar and a rotatable member supported by the pivot pin, the rotatable member having a handle and a working surface in an arcuate configuration whereby when the handle is moved to a position

generally perpendicular to the bar assembly the interior bar can move with respect to the exterior bar and when the handle is moved to a position approaching parallelism with the bar assembly, the working surface will frictionally engage the second bar to preclude motion thereof with respect to the first bar; and

a base plate positionable upon a sash, the base plate having a central section adapted to receive an air conditioner there upon, the base plate also having an indoor section in an inverted U-shaped configuration and an outdoor section in an inverted L-shaped configuration, the outdoor and indoor sections providing bearing surfaces for vertical regions of an air conditioner.

2. A window-mounted air conditioner installation system comprising:

a support bar assembly including a first bar and a second bar, each bar having a vertical outdoor face and a parallel indoor face and having a horizontal planar upper face and a parallel lower face, each bar having a free end and a central end, the central end of the second bar being slidably received within the central end of the first bar; and

a locking assembly secured to the outdoor face of the first bar adjacent to the central end.

3. The system as set forth in claim 2 wherein the locking assembly including a vertically disposed pivot pin fixedly spaced from the first bar and a rotatable member supported by the pivot

pin, the rotatable member having a handle and a working surface in an arcuate configuration whereby when the handle is moved to a position generally perpendicular to the bar assembly the interior bar can move with respect to the exterior bar and when the handle is moved to a position approaching parallelism with the bar assembly, the working surface with frictionally engage the second bar to preclude motion thereof with respect to the first bar.

4. The system as set forth in claim 2 and further including end stoppers having rectilinear portions received within the free ends of the first bar and second bar respectively, each stopper having an enlarged portion formed integrally with its associated rectilinear portion.

5. The system as set forth in claim 2 and further including a base plate positionable upon a sash, the base plate having a central section adapted to receive an air conditioner there upon, the base plate also having an indoor section in an inverted U-shaped configuration and an outdoor section in an inverted L-shaped configuration, the outdoor and indoor sections providing bearing surfaces for vertical regions of an air conditioner.